

LOW-INCOME WEATHERIZATION PROGRAM COMMUNITY SOLAR PILOT

Department of Community Services and
Development

January 18, 2017



Welcoming Remarks

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CSD Overview

CSD works to improve the lives of low-income Californians. In part, by providing weatherization and renewables to help households reduce energy use and energy costs.

For more information about CSD , please visit our website:

www.csd.ca.gov

LIWP Overview

- LIWP is one of California's Climate Investment programs, funded by Cap-and-Trade Auction proceeds to help achieve greenhouse gas reduction and valuable co-benefits.
- To date, CSD has been allocated approximately \$173.8M (over the 2014/15, 2015/16 and 2016/17 state budgets)
- \$5M has been reserved for a Community Solar pilot.

LIWP Objectives

Primary Objective

- Reduce greenhouse gas (GHG) emissions by improving energy efficiency in low-income residential housing located in disadvantaged communities

Co-Benefits

- Reduce energy usage and energy cost for low-income residents
- Improve health and safety of low-income housing
- Create jobs
- Create investment in local communities

TODAY'S PURPOSE

Discuss how we can create and pilot a Community Solar program that truly serves the low-income community and can be duplicated if future funding becomes available.

CSD's History with Rooftop Solar

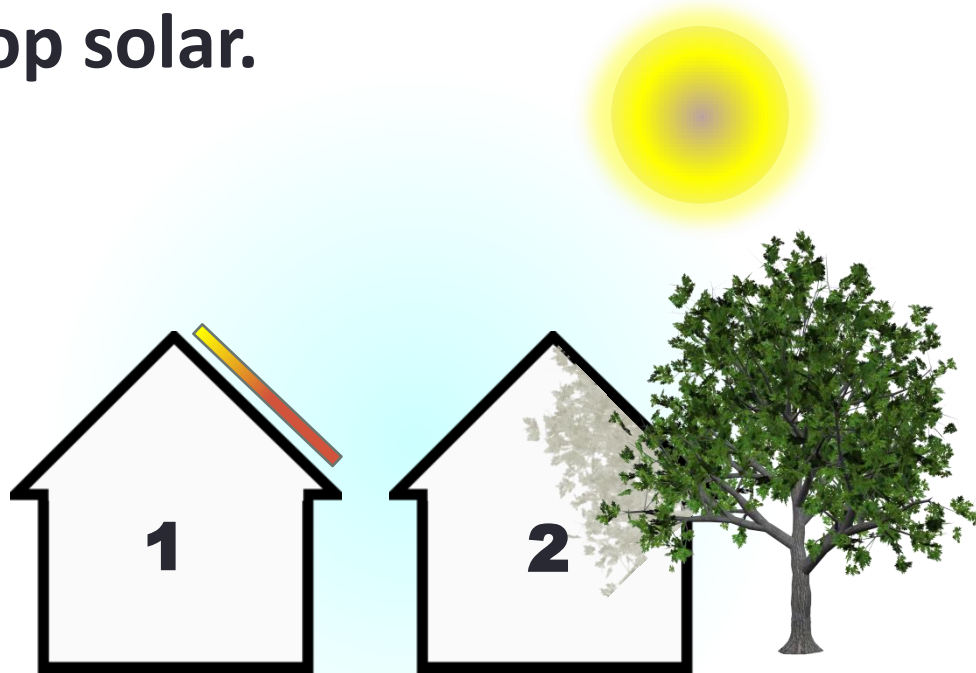
Through a 2009-2012 *Solar for All California* pilot, and our on-going LIWP solar PV program, CSD has funded the installation of approximately:

- 2,000 single-family PV systems
- 14 large multi-family installations
- Over 7MW of power

WHY COMMUNITY SOLAR?

Why Community Solar?

A lot of qualified, low-income homes don't qualify for rooftop solar.



The National Renewable Energy Laboratory found that only 22 to 27% of residential rooftop area is suitable for on-site PV after adjusting for structural, shading, or ownership issues.

Why Community Solar?

Because of the high cost of rooftop PV, CSD limits single-family solar to owner-occupied homes, so a lot of qualified renters miss the benefits.

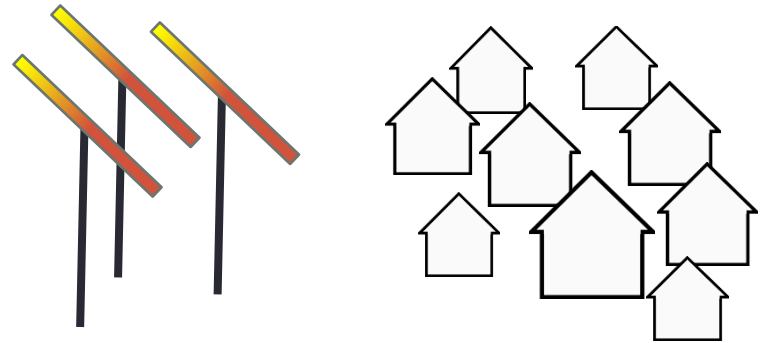


Why Community Solar?

Cost Effectiveness & Equity.



A single rooftop PV system can cost up to \$25,000 and reduce one household's electricity bill by up to 90%.



A Community Solar array can be used to reduce the electricity bills of multiple low-income homes by a lower—but still beneficial—percent.

WHAT WOULD CSD LIKE TO SEE IN
A COMMUNITY SOLAR PILOT?

CSD Vision for Community Solar

For Our Customers:

- A project that is truly part of the “community.”
- Benefits customers who live in a DAC
- Reduces customer electricity costs
- Helps the customers who need it the most
- Requires no additional customer costs or financial barriers (credit scores, credit checks, etc)

CSD Vision for Community Solar

For Our Customers:

- Billing that is easy to understand
- Serves customers who are not qualified for rooftop PV (renters, poor roof quality, etc)
- Provides energy efficiency first and energy education

CSD Vision for Community Solar

Pilot Design:

- A scalable model(s) that can be duplicated if future funding becomes available
- Quantifiable GHG reduction
- Able to provide electricity at a lower cost per watt than rooftop PV, and benefit the maximum number of customers
- Project completion by June 2020
- Bring leveraged dollars to the project

continued . . .

CSD Vision for Community Solar

Pilot Design:

continued . . .

- Ability to target qualified customers with the greatest need (highest electric bills)
- An outreach plan for finding and enrolling qualified customers.
- Combine with energy efficiency and customer education
- Incorporate workforce development for DAC residents.

Anticipated Timeline

December, 2016	Informal meetings/discussions with interested parties. Research.
January 18, 2017	Interested parties meeting at CSD. 1pm – 3pm.
January/February	Ongoing meetings with interested parties
Early March, 2017	Draft CS procurement document for CSD/partner review and comment
Late March, 2017	Release final procurement document
April/May, 2017	Proposals Due
Early Summer, 2017	Contract Awarded
June, 2020	Project Completion

DISCUSSION

Topics for Discussion

1. Goals and outcomes identified by CSD. Are they attainable?
 - Inclusion of energy efficiency/client education
 - Inclusion of workforce development
 - Lower Cost/watt than rooftop PV
2. What impact can CSD's \$5M have/Potential models?

Topics for Discussion

4. How do you envision marketing to target audiences and ensuring sufficient qualified customers?
5. What potential barriers do you see to success?

Thank You

If you have additional questions or ideas after this meeting, please email:

energy.programs@csd.ca.gov

